## Circuit-breaker, 4 pole, 1000A, 105 kA, Selective operation, IEC, Fixed



Part no. IZMX40H4-V10F-1

183911

**EL Number** 4398321

(Norway)

values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), the m height, the partitions, and any external ventilation. Depending on the specif switchgear design, this may result in derating, which can then be compens	General specifications	
Product Length/Depth   \$84 millimetre   \$97 millimetre   \$98 hilogram   \$98 hi	Product name	Eaton Moeller series IZMX/INX circuit-breaker
Product Longith/Depth Product weight Product weight Spr millimetre Product weight Compliances EEC HECH 80947 Roths conform Product Tradename Product Tradename Product Tradename Product Tradename Product Sub Type Roth Scordorm Product Type Roth Spr Roth Scordorm Roth Scordorm Roth Scordorm Roth Spr R	Part no.	IZMX40H4-V10F-1
Product height Product width Product width Product weight So klayram Forduct Tradename Product Tradename Type Number of poles Amperage Rating Alr circuit breakers/switch-disconnector Open circuit breaker Four-pole Amperage Rating Release system Features Motor drive optional Complete device with protection unit Special features  Special features  Main terminals must be separately ordered. Suitable for una selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the Circuit breaker, which is in sinfluenced by the ambent temperature, the deprend of note special for by increasing who expended and detailed information.  Frame Frame Frame Frame Frame Valued with Technical Data - Electrical  Voltage rating at AC Rated operating voltage (Ue) - min Rated operating voltage (Ue) - min Rated operating voltage (Ue) - min Rated injustion voltage (Uimp) Rated injustion voltage (Uimp) Rated injustice withstand voltage (Uimp)	EAN	4015081790555
Product width Product weight Compliances    IEC   IECPL 80947   Rolfs Conform   Product Tradename   IZMM/INX	Product Length/Depth	584 millimetre
Product Tvadename Product Tvadename Product Tvadename Product Tvadename Product Sub Type Air circuit breakers/switch-disconnector Pour-pole Amperage Rating Pour-pole Amperage Rating Pour-pole Peatures Peatures Peatures Pastures Product Sub Type Pour-pole Release system Peatures Product Sub Type Pour-pole	Product height	597 millimetre
Compliances   IEC   IEC/EN 69947   RelSS cenform	Product width	521 millimetre
IECEN 09947   RoltS conform	Product weight	56 kilogram
Product Type Product Sub Type  Delivery program  Type  Air circuit breaker s/switch-disconnector Open circuit breaker  Number of poles  Amperage Rating Ampera	Compliances	IEC/EN 60947
Product Sub Type  Delivery program  Type  Air circuit breakers/switch-disconnector Open circuit breaker  Four-pole  Amperage Rating  Release system  Features  Motor drive optional Complete device with protection unit  Special features  Main terminals must be separately ordered. suitable for zone selectivity optionally fatable for zone selectivity optionally fatable rearround the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), the me, values will depend evertise with compensation and every switchear and provides specific and detailed information.  Frame  Frame  Fitted with:  Used with  Used with  Voltage rating at ACC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Uii)  Rated impulse withstand voltage (Uiimp)  Rated impulse withstand voltage (Uiimp)  Rated uninterrupted current (Iu)  None  Air circuit breaker/switch-disconnector  Air circuit breaker/switch-disconnector (12 kV AC)  1000 V  Rated insulation voltage (Uiimp)  Rated uninterrupted current (Iu)  None  Air circuit breaker/switch-disconnector  None  Frame	Product Tradename	IZMX/INX
Type	Product Type	Circuit-breaker
Type  Air circuit breakers/switch-disconnector Open circuit breaker  Number of poles  Amperage Rating  Amperage Rating  Release system  Features  Motor drive optional Complete device with protection unit  Main terminals must be separately ordered. Special features  Special features  Special features  Amount of the optional complete device with protection unit  Main terminals must be separately ordered. Suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the circuit breaker, which is influenced by ambient temperature, the degree of protection (IP), the m height, the partitions, and any external ventilation. Depending on the specif witchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the specific and detailed information.  IZMX40  Fitted with:  Used with  Open circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  890 V AC  Rated operating voltage (Ue) - max  690 V  Rated insulation voltage (Ui)  Rated insulation voltage (Uimp)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)	Product Sub Type	None
Number of poles Amperage Rating Amperage Rating Release system Features  Special features  Special features  Main terminals must be separately ordered. Suitable for zone selectivity optionally faithed bey user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), them height, the partitions, and any external ventilation. Depending on the specif switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear can provide specific and detailed information.  Frame  Frame  IZMX40  Vusted with  Vused with  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Uinp)  Rated impulse withstand voltage (Uimp)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Open circuit breaker  690 V  Rated uninterrupted current (Iu)  Open circuit breaker  690 V  12 kV AC  1000 V	Delivery program	
Amperage Rating Release system  Features  Special features  Special features  Special features  Main terminals must be separately ordered.  suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IPI), then height, the partitions, and any external ventilation. Depending on the specif switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear can provide specific and detailed information.  Frame  IZMX40  Fitted with:  Used with  Used with  Open circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  1000 A	Туре	
Release system  Features  Motor drive optional Complete device with protection unit  Special features  Main terminals must be separately ordered. suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is neight, the partitions, and any external evaluation (IP), the sen influenced by the ambient temperature around the circuit breaker switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spi switchgear design, this may result in derating, which can then be compensation.  Frame  IZMX40  Switched-off indicator  Open circuit breaker Air circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Votage ratin	Number of poles	Four-pole Four-pole
Features  Motor drive optional Complete device with protection unit  Special features  Main terminals must be separately ordered. Substitute of zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature around the circuit breaker, which is influenced by the ambient temperature of the circuit breaker, which is influenced by the ambient temperature and the circuit breaker, which is influenced by the ambient temperature and the circuit breaker, which is influenced by the ambient temperature and the specific and detailed information.  Frame  IZMX40  Switched-off indicator  Used with  Open circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Votage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  1000 A	Amperage Rating	1000 A
Special features  Special features  Main terminals must be separately ordered. suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature; the degree of protection (IP), the meight, the partitions, and any external ventilation. Depending on the specifically influenced by the ambient temperature; the degree of protection (IP), the meight, the partitions, and any external ventilation. Depending on the specifically influenced by the ambient temperature; the degree of protection (IP), the meight, the partitions, and any external ventilation. Depending on the specifical specifical of the protection of the specific and detailed information.  Frame  Fitted with:  Used with  Switched-off indicator  Open circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Completed to zero the values used in separate with contents of the values used in separate with care and any external ventilation. Depending on the specific and detailed information.  IzMX40  Switched-off indicator  Open circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  690 V AC  690 V AC  Rated insulation voltage (Ue) - max  690 V  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)	Release system	Electronic release
suitable for zone selectivity optionable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), the meight, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compens for by increasing the cross-sectional area. Temperature rise tests in the spic switchgear can provide specific and detailed information.  Frame  IZMX40  Fitted with:  Used with  Used with  Open circuit breaker Air circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  1000 A	Features	
Fitted with:  Used with  Open circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  690 V  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Switched-off indicator  Open circuit breakers/switch-disconnector  690 V  690 V  1000 V  1000 V  11 kV AC	Special reatures	suitable for zone selectivity optionally fittable by user with comprehensive accessories Terminal capacity hint: These are values used in separate switchgear. The actual values will depend on the temperature around the circuit breaker, which is influenced by the ambient temperature, the degree of protection (IP), the mounting height, the partitions, and any external ventilation. Depending on the specific switchgear design, this may result in derating, which can then be compensated for by increasing the cross-sectional area. Temperature rise tests in the specific
Used with  Open circuit breaker Air circuit breaker Air circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Open circuit breaker Air	Frame	IZMX40
Air circuit breakers/switch-disconnector  Technical Data - Electrical  Voltage rating at AC  Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  690 V  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  Air circuit breakers/switch-disconnector  690 V  690 V  1000 V  1000 V  1000 V  1000 A	Fitted with:	Switched-off indicator
Voltage rating at AC Rated operating voltage (Ue) - min Rated operating voltage (Ue) - max Rated insulation voltage (Ui) Rated impulse withstand voltage (Uimp) Rated uninterrupted current (Iu)  690 V  690 V  690 V  690 V  1000 V  1000 V  1000 V	Used with	
Rated operating voltage (Ue) - min  Rated operating voltage (Ue) - max  690 V  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  Rated uninterrupted current (Iu)  690 V  1000 V  1000 V  1000 A	Fechnical Data - Electrical	
Rated operating voltage (Ue) - max  Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  12 kV AC  Rated uninterrupted current (Iu)  1000 A	Voltage rating at AC	690 V AC
Rated insulation voltage (Ui)  Rated impulse withstand voltage (Uimp)  12 kV AC  Rated uninterrupted current (Iu)  1000 A	Rated operating voltage (Ue) - min	690 V
Rated impulse withstand voltage (Uimp) 12 kV AC Rated uninterrupted current (Iu) 1000 A	Rated operating voltage (Ue) - max	690 V
Rated uninterrupted current (Iu) 1000 A	Rated insulation voltage (Ui)	1000 V
	Rated impulse withstand voltage (Uimp)	12 kV AC
Rated uninterrupted current (Iu) at 50°C 1000 A	Rated uninterrupted current (Iu)	1000 A
	Rated uninterrupted current (Iu) at 50°C	1000 A
Rated uninterrupted current (Iu) at 60°C 1000 A	Rated uninterrupted current (Iu) at 60°C	1000 A
Rated uninterrupted current (Iu) at 70°C 1000 A	Rated uninterrupted current (Iu) at 70°C	1000 A
Rated short-time withstand current (t = 1 s) 85 kA	Rated short-time withstand current (t = 1 s)	85 kA
Rated short-time withstand current at 50/60 Hz (t = 3 s) 66 kA		
Overload release current setting - min 400 A		
Overload release current setting - max 1000 A	·	
Short-circuit release delayed setting - min 750 A	· · · · · · · · · · · · · · · · · · ·	
Short-circuit release delayed setting - max 10000 A		
Short-circuit release non-delayed setting 1.5 - 10 x Ir		

Short-circuit release non-delayed setting - min	0 A
Short-circuit release non-delayed setting - max	15000 A
Adjustment range short-term delayed short-circuit release - min	600 A
Adjustment range short-term delayed short-circuit release - max	10000 A
Adjustment range undelayed short-circuit release - min	2000 A
Adjustment range undelayed short-circuit release - max	15000 A
Rated short-circuit breaking capacity at 400 V, 50 Hz	105 kA
Rated short-circuit making capacity up to 440 V, 50/60 Hz	231 kA
Rated short-circuit making capacity up to 690 V, 50/60 Hz	166 kA
Closing delay via spring release	35 ms
Electrical connection type of main circuit	Rail connection
Number of standard mechanical operations per hour - max	60
Operating sequence up to 690 V, 50/60 Hz (IEC/EN 60947)	85 kA
Actuator type	Push button
Utilization category	В
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	20000 operations (switching cycles ON/OFF, with maintenance)
	10000 operations (switching capacity)
Direction of incoming supply	As required
Technical Data - Mechanical	
Device construction	Built-in device fixed built-in technique
Mounting Method	Fixed
Degree of protection	IP55 with protective cover IP31
	IP31 with door seals
Protection	Selective operation
Number of auxiliary contacts (change-over contacts)	2
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Position of connection for main current circuit	Back side
Weight of fixed mounting version (4-pole)	56 kg
Lifespan, mechanical	12500 switching cycles (ON/OFF) 25000 operations (switching capacity, with maintenance)
Technical Data - Mechanical - Terminals	
Terminal capacity (copper bar)	60 mm x 10 mm (1x) for fixed mounting (black)
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	1000 A
Equipment heat dissipation, current-dependent	40 W
Heat dissipation at rated current with fixed mounting	40 W
Ambient operating temperature details	-20 °C - 70 °C
Ambient operating temperature - min	-20 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	70 °C
Design verification as per IEC/EN 61439	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.1 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
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10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances	Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.
10.4 Oleananices and Greepage distances	Meets the product standard's requirements.

10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss13-27-37-04-09 [AJZ716018])

А	1000
V	690 - 690
kA	105
Α	400 - 1000
А	600 - 10000
А	2000 - 15000
W	40
	Built-in device fixed built-in technique
	No
	Rail connection
	No
	No
	0
	0
	2
	Yes
	No
	4
	Back side
	Push button
	Yes
	No
	Yes
	IP31
	V kA A A